SCIENCE AND INVENTION.

Work of the World's Busy Brains in Discovering, Inventing and Creating.

THE SELDEN PATENT. received a broad patent for the invention of "a road locomotive or horseless carriage propelled by a liquid hydrocarbon gas-engine of the compression type, having one or more power cylinders, using an intermediate clutch or disconnecting device for the separation all the countries of the world. It is using a suitable receptacle for liquid in the smaller countries is so exceed- foreign countries. fuel." As is well known, the Patent ingly higher than that in the great ones. Office issues a patent upon prima facie For example, it costs \$200 to obtain a evidence of a new and useful invention, patent in Santo Domingo, where the and allows the questions to be connect- market for any patentable invention ed with it to be fought out in the must be very meager, and it is difficult courts. That is, a patent is not conclu- to see how a patentee can realize from sive evidence, and it only becomes a the sale of his invention anything like thorough monopoly when the courts the sum charged. It costs \$150 to get have decided that it covers the case a patent in Wei-Hai-Wei and \$150 for and excludes all others. The Selden one in Gibraltar. Very few things patent has never been looked upon by would sell in any of these places to an patent lawyers as a strong and conclusive award. They have regarded it as full of loop-holes. As soon as the manufacture of automobiles began to as- trade in the smaller countries is in the sume any importance the leading manu- shape of monopolies, from which the facturers ran up against the Selden Government derives the most of its patent, and without testing its validity revenue, and therefore it must make all agreed among themselves to accept it of them pay very roundly for the priviland maintain it against others. Mr. ege of selling. In the larger countries Selden assigned his patent to the Elec- the tariff for patents and trade-marks tric Vehicle Company in consideration seems quite reasonable. It only costs of royalties. The manufacturers formed \$15 to obtain a patent in Belgium, an association for mutual protection in where there are about 7,000,000 active, litigation and other matters, and in industrious, fairly-paid people, who July, 1900, began an amicable suit to would be large purchasers of any arti- for attaching the hose. confirm the Selden patent. The suit cle which pleased them. The Falkland was against the Winton Motor Car- Islands, Lagos, Leeward Islands and riage Company, and the Winton Co. Liberia each charge \$250, and the marmade no defense. A decree was entered ket for a patented article must be very against the company pro confesso, and small. The Bermuda Islands, which its example was followed by other auto- have only 17,535 population, of whom mobile manufacturers until there were but 6,383 are whites, charge \$275 for a patent with \$50 for a trade most. into an agreement that every one should patent, with \$50 for a trade-mark. The take out a license from the Vehicle Co., and pay a royalty of 1% per cent upon Sierra Leone, a British Colony in Afthe retail price. Three-fifths of the rica adjoining Liberia. The country is royalties were to be retained by the a peninsula 26 miles long and 12 miles Vehicle Co. and two-fifths to be paid broad, with an area of about 300 back to the Association for the pay- square miles, or hardly that of a goodment of expenses. All entering into sized western County. A small strip issue any licenses except with the con- Colony, but the whole area is only sent of the Association, which was to 4,000 square miles, with a population manage all litigation. Each member of of 76,655, of whom but 444 are whites. the Association paid an initiation fee of It has a trade in rice, palm kernels and \$2,500, and the foundations were laid kola nuts. It would be worth while for the biggest monopoly in the coun-knowing how a man who would no try. The automobile manufacturers outside of the Association were generally scared into paying tribute to it and taking out licenses; but one of the larg-Detroit, has fought the Association from the start. Mr. Ford took the aggressive. He bantered the Association to apply for an injunction against him, and finally offered, if they would sue him, to let them choose any jurisdiction in the country. The Association sued the Ford Motor Co., sued John Wanamaker, who was the Ford agent in New York, and they sued O. J. Gude as an owner and user, but the cases have never been brought to trial, and Ford accuses the Association with designedly obstructing the proceedings. Ford gives a bond with every machine he sells, promising to defend the purchaser in all litigation and to pay all possible damage in-

curred. Mr. Ford says that Selden did not discover the engine, and that everybody has a perfect right to use any old gasoline engine and carry it on a vehicle in any old way with any old and wellknown means of applying the power and disconnecting it. In short, Mr. Selden never advanced the automobile in dustry in any way, and its condition would be the same if he had never been born. The Ford Co. has paid 100 per cent dividends this year and another is due. It is very prosperous, and expects to remain so, in spite of the National Association of Automobile Manufacturers. As the Selden patent has but seven years more to run, it looks as if Ford will win out in the end by the failure of the cases to come to trial, if by no other means. What has brought the matter more prominently before the public is the attempt of the National Association of Automobile Manufacturers to embarrass the importation of foreign machines and to levy a tax of 5 per cent upon every machine imported. They have detectives who are following up all foreign machines, and have already discovered at least 800 in the country which have not paid tribute. The purchasers of foreign machines complain bitterly against this "legal blackmail," but most of them prefer to pay rather than to become involved in costly litigation. The National Association of Automobile Manufacturers secured the Madison Square Garden for automobile shows, leasing it for two years and prohibiting the exhibition of any but licensed machines. Mr. Job E. Hedges, who is the counsel for the Ford Co., has organized an association of unlicensed manufacturers, and they are giving a show in New York, to which all machines will be admitted, at the new 69th Regiment MAKING USE OF MURDERERS. The London Lancet has started an

interesting discussion as to the advisability of using convicted murderers, Russia, tax paid 3 years... 145
Russia, tax paid 1 year...... 48 whose lives have been forfeited, for the Roumania the use of surgeons. This would lend an additional terror to the sentence, because most ignorant men, and of this class murderers are generally composed, have a much greater fear of the posed, have a much greater fear of the Switzerland, tax paid 1 year. 45 Switzerland, tax paid 1 year. 35 surgeon's knife than they have for the Tasmania hangman's noose. Among the suggestions are those of testing the tuberculosis and cancer germs. Of course, there will be a howl from the "professional humanitarians," but the public has become pretty tired of these slushy sentimentalists, who would, if their plans could be carried out, have every man who commits a crime be made a public Turkey, tax paid 1 year. 90 Uruguay, tax paid 1 year. 250 Uruguay, tax paid 1 year. 250 Victorias 4 years, \$200, 15 years, \$200, 15 years. 280 Victoria Wei-Hai-Wei Wei-Hai-Wei Western Australia Zanzibar, tax paid 4 years. 100 Zululand 150 losis and cancer germs. Of course, there pet and attended at the penitentiary by a valet, with all the comforts of refinement and elegance. A brute who commits a willful murder and is so ad
There were three non-refillable bottine which has a carrier with recesses for the fruit which carry the same over to a coring knife to remove the cores of open bottom, for the use of fruit pickmits a willful murder and is so ad- Oct. 3,

judged by a jury of his peers has no authorization must be filed. A power A big fight is brewing in the automo- rights that a surgeon need respect. If of attorney purporting to have been bile trade. In 1895 George B. Selden he can be made use of to humanity in be recognized, either in favor of the any way he should be forced to make that compensation to society.

FOREIGN PATENTS.

The following table gives the cost of obtaining patents and trade-marks in extent to reimburse the patentee. The probable reason is that most of the highest charge of all, \$300, is made by

knowing how a man who		
\$300 for a Sierra Leone pater to get his money back.	it exp	ected
Here is the table:		
	Pat-	Trada
Argentine, 5 years, \$75, 1	ents.	
years, \$260 and 10 years Australia, Commonwealth of	. \$110	\$ 80
tax paid 7 years	. 64	28
years Barbados, tax paid 7 years Belgium, tax paid 1 year Bermuda Islands Bolivia, all paid Brazil, tax paid 1 year British East Africa	. 150	41
Bermuda Islands	· 275	50
Bolivia, all paid	. 200	60
British East Africa British Guiana, tax paid	7 175	••••
British New Guinea, tax paid	d 200	71
4 years	75 d 100	50
		55
Canada, tax paid 6 years Cape Colony or Cape of Good Hope, tax paid 3 years Central Africa Protectorate	40	30
Hope, tax paid 3 years Central Africa Protectorate	. 95 . 150	100
Ceylon, all paid	. 125	50
t null all paid	71111	4:
China	. 120 . 120	100
Congo Independent State	. 110	100
Cuba, all paid	. 70	40
Curacao	. i56	100
Cyprus Danish West Indies, all paid Denmark, taxe paid 1 year	. 75	
Dutch East Indies	. 450	150
East Africa Protectorate, ta-	X	
Ecuador, all baid	. 200	75
Falkland Islands	. 250 . 100	50
Finland, tax paid 1 year France, tax paid 1 year Fiji Islands, all paid	45	2:
Germany, tax paid 1 year	. 45	36
Gambia (British)	150	50
Gold Coast Colony, tax paid 4 years Great Britain, tax paid 4 year	. 125	50
Greece	200	56
Grenada, tax paid 4 years Guatemala, all paid	400	75
Holland Honduras, tax paid 3 years Hong Kong, all paid	. 220	30
Hungary, fax bain i vear.	26.5	140
I celand all paid	60	35
India, tax paid 4 years Italy, 6 years, \$45, term 1 yea Jamaica, all paid		70
Japan, tax paid 1 year Lagos	. 4X	65
Leeward Islands tax paid	2	76
years Liberia, all paid Luxembourg, tax paid 1 year	. 250 . 25	2
tear	75	5
Mauritius, all paid	. 200	70
Mentenegro	35	36
Montenegro Mysore Natal, tax paid 3 years Negri-Sembilan, tax paid years	. 100 . 95	6
years	145	
New Foundland, all paid New South Wales	. 95	2:
New Zealand, tax paid 4 year Nicaragua, tax paid 1 year Northern Nigeria	2 40	6
Norway, tax bald I year	. 45	100
Orange River Colony tay pai	. 150	100
3 years Pahang, tax paid 7 years Panama, tax paid 3 years Paraguay, all paid	. 125	71
Panama, tax paid 3 years Paraguay, all paid	. 200	100
retak, tax paid i years	. 140	120
Phillipine Islands Registra		30
Porto Rico, Registration Portugal, tax paid 1 year	. 5 . 45	41
Portuguese Colonies		40

Tasmania
Transvaal, tax paid 3 years... 75
Trinidad, all paid 125
Tunis, tax paid 1 year 75
Turkey, tax paid 1 year 90

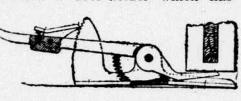
ACCESS TO PATENT APPLICATIONS. The Patent Office publishes the fol-

owing as Rule 18: "Rule 18.-Before any attorney, original or associate, will be allowed to inspect papers or take action of any kind his power of attorney must be filed. But general powers given by a principal to an associate cannot be considered. In each application the written firm or of any of its members, unless all its members shall be named in such power of attorney."

WORK OF THE PATENT OFFICE. For the week ended Oct. 3, 1905, the Patent Office issued 579 patents, two designs, 105 trade-marks, one label and one reissue; making a total of 688. Of of the engine from the propelling wheel, an interesting study, because it shows these 524 patents and 106 trade-marks. using a power shaft running at a great- many features that are difficult to un- etc., went to citizens of the United

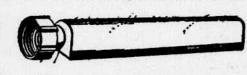
Door Holder.

Miles E. Bever, Kansas City, Mo., has patented a door-holder which has a



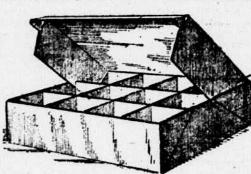
pawl working with ratchet teeth and a spring to thrust under the bottom of a door and hold it firmly from being op-

Lawn Sprinkler. Barney Brown, Longbeach, Ca'., has



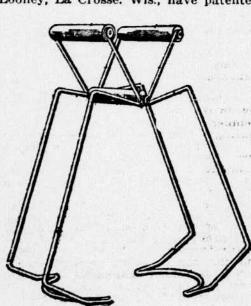
bent into a tubular form, arched above and flat below, with perforations to convert it into a sprinkler and a means Folding Egg-Case.

Luther P. Brown, North Adams, Mass., has patented a foldable box for



stored in a compact shape for return. Cuspidor Carrier.

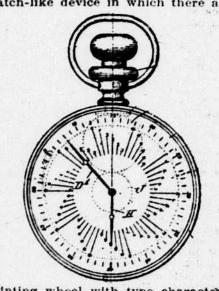
William B. Tscharner and Charles C. Looney, La Crosse. Wis., have patented



a cuspidor carrier consisting of pivoted scopic sections which permit the adtongs worked by handles which auto- justment to any size of collar. matically close upon and lift the spit-

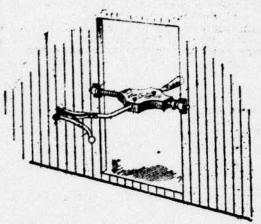
Expense Recorder. Adolph G. Carlson, Chicago, Ill., has

patented a device for keeping track of one's expenditures, which consists of a watch-like device in which there are a



printing wheel with type characters, a record sheet and a connection for moving the index finger and printing upon the sheet the amounts expended from time to time. Mall-Bag Catcher.

Hazelius S. Bostian, Chinagrove, N C., has received a patent for a new form of a mail-bag catcher which has



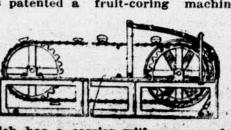
a metal head or socket to fasten to the door of the car and a handle working with a spring projecting to catch the mail-bag and hold it securely.

Two patents were issued last week for methods of making log rafts. One of these, to John A. Campbell, Seattle Wash., is a method of binding the logs



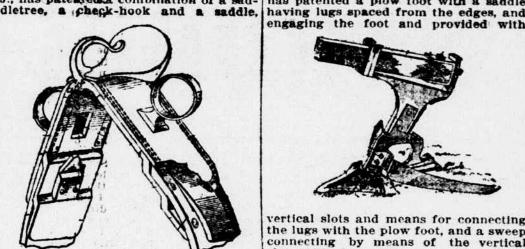
form a body of large beam. The other bottom of a buggy or other vehicle may is to the same man for a cradle which is a floating platform the entire length and width of the raft and forming the foundation of the same.

Fruit-Coring Machine. Albert J. Burns, Rochester, N. Y. has patented a fruit-coring machine



the fruit.

Albion D. Carpenter, Woodbridge, N. , has patented a combination of a sad-



with the saddletree having a groove and er speed than the propelling wheel and derstand. The first is that the charge States, and 57 patents to citizens of the check-hook and saddle each a projection to fit into the groove.

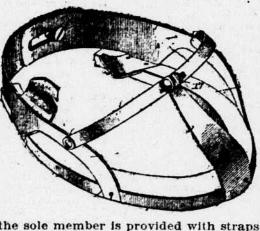
> Rubber Horseshoe. William Downs, Toronto, Canada, has patented a rubber horseshoe which consists of a rubber pad molded to conform to the shape of the bottom of the horse's



hoof. The rubber is molded around a received a patent for a sprinkler-head metal plate with a series of lugs stampfor lawns consisting of a sheet of metal ed out of said metal plate and extending down into the rubber pad.

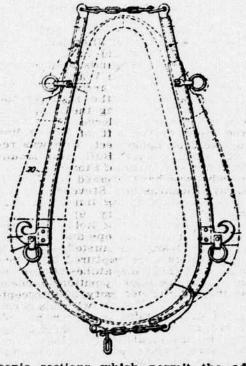
Ark., has patented a horseshoe in which

Nailless Horseshoe John D. Jordan, Eureka Springs,

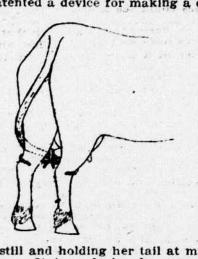


from the sides to extend over the horse's hoof and be tightly fastened to it.

Edward E. Bull, Whitwell, Tenn., button-holes, which has the usual without change of form, a load twice as this syndicate bound themselves not to of adjacent coast is a dependency of the carrying eggs and admitting of being has patented a hame formed of tele-

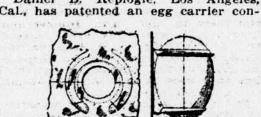


Combined Hopple and Tail Holder. John G. Connell, Hoquiam, Wash. has patented a device for making a cov

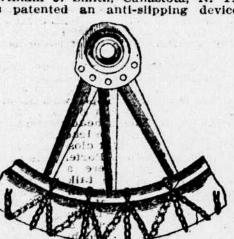


stand still and holding her tail at milking time. It is a device for grasping her legs and has a lateral loop for holding the tail.

Egg Carrier. Daniel B. Replogie, Los Angeles, eggs. It is as follows:



structed from a sheet of metal, with a holding-clip cut from the body of the



for tires, which shak clips engaging the rim and snap-hooks to catch and hold chain having a zig-zag course over the read of the fire.

Vehicle Heater. Theodore B. 1 Woodward, Norway, together with encircling chains so as to Pa., has patented a device by which the



be heated by means of an oil stove, with pipes to convey the gas and odors from those in the vehicle.

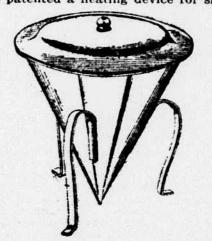
Fruit Picker's Sack.

Edward B. James, Thomasville, Ga. has patented a plow foot with a saddle



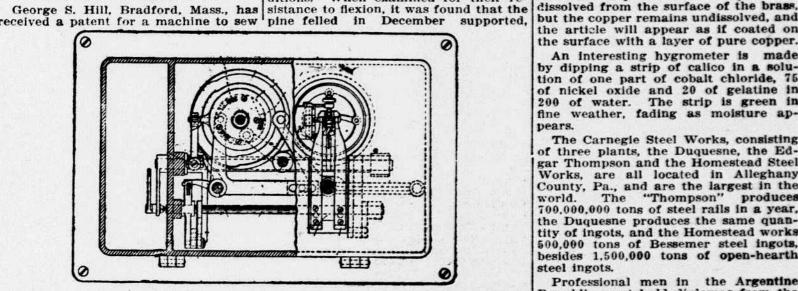
certical slots and means for connecting the lugs with the plow foot, and a sweep connecting by means of the vertical slots with the saddle.

Heating Attachment for Lamps. Cyrus Plummer, Flemingsburg, Ky. has patented a heating device for small



same way, one at the end of December, another at the end of January, a third quantities of liquid over a lamp. It at the end of February, and a fourth conical vessel with legs of flexible at the end of March. They were squared metal to engage the top of a lamp in the same manner, made into similar chimney.

Buttonhole Sewing-Machine



Cotton-Picking Machine.

stitch-forming mechanism with a de-heavy as the one felled in March. vice for producing the motion of sew- There was the same difference in the ing around the buttonhole, completing durability. Piles made of branches cut chanical engineers, architects, chemists in December were still healthy at the and surveyors must pass an examinaend of 16 years, while others, made of tion as strenuous as those passed by similar branches cut in March, broke doctors or dentists. Henderson P. Childress, Brooklyn, N. without effort at the end of three or

WHEN TO FELL TREES.

Marked Superiority of Timber Cut in De-

Le Bois describes the results of ex-

periments conducted to ascertain the

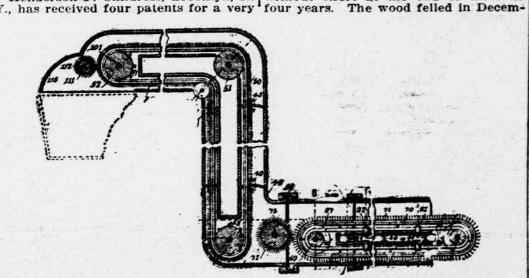
most advantageous period for felling

trees for timber. Four beautiful pines

healthy: they were cut down in the

beams, and dried under identical con-

ditions. When examined for their re-



elaborate cotton-picking machine, the ber was also less porous, allowing les description of which occupies nearly 14 moisture to penetrate. Of four oaks columns in the Official Gazette.

Machine for Cleaning Old Brick.

Joseph M. Moroney and Albert E. tom of vessels of the same dimensions. McCarty, St. Louis, Mo., have received The four vessels were filled with water a patent for a machine for cleaning old to the same height; but while at the

felled successively in December, January, February, and March, four identical disks were taken for forming the bot-

allow a drop of water to pass.

same experiment was conducted with

oak casks. At the end of a year the

one had lost only 40 cubic centimeters.

ticles of starch, which have the prop-

on the contrary, it become blue, it is

Solder for Aluminum.

SCIENTIFIC NOTES.

located at Vienna. It is 587 feet long.

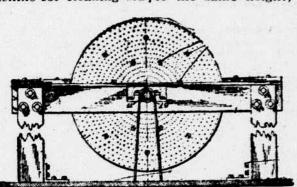
people. It is patronized by thousands

struck a cable and ran down into the mine, premeturely setting off two

charges of dynamite.

What is reported to be the most suc-

Winter wood.



brick, which consists of a platform end of two hours water filtered through having a revolving disk, the face of the oak disk of the tree cut in March, which strikes the brick and cleans them the disk of the December oak did no of the old mortar.

Egg Preserving Compound.

Esta A. Makepeace, Eldorado, Kan., has patented a compound for preserving

"A compound for preserving eggs,

made up of one part each of magnesia,

of chlorid of sodium, four parts of oxid of calcium, and 24 parts of water."

Folding Stool. Mich., has patented a folding stool of simple design which ends in castors for jodine, it is Spring or Summer wood; if, the pivoted legs.

Stomach trouble is not really a sickness, but a symp

tom. It is a symptom that a certain set of nerves is ailing. Not the voluntary nerves that enable you to NERVES over which your mind has no control. I have not room here to explain how these tender, conducting character they keep the to get these hammers down." tiny nerves control and operate the stomach. How house cooler in Summer and warmer worry breaks them down and causes indigestion. How in Winter than other shingles. Some nisuse wears them out and causes dyspepsia. How day we may have the entire building, neglect may bring on kidney, heart, and other tron- frame and all, of asbestos, and thus oles through sympathy. I have not room to explain have a really fireproof house. ow these nerves may be reached and strengthened and vitalized and made stronger by a remedy I spent rears in perfecting-now known by physicians and Druggists everywhere as Dr. Shoop's Restorative, Tablets or Liquid.) I have not room to explain how cessful solder for aluminum yet sehis remedy, by removing the cause, usually puts a cured, consists of tin 64 parts by weight, certain end to indigestion, belching, heartburn, insominia, nervousness, dyspepsia. All of these things are fully explained in the book I will send you free when you write. Do not fall to send for the book. It tells how the solar piexus governs digestion and a hundred that the surfaces and face with the solder. No chemical is used, but the surfaces of how the solar piexus governs digestion and a hundred other things every one ought to know—for all of us, at some time or other, have indigestion. With the book I will send free my "Health Token"—an intended massport to good health.

For the free book and Book 1 on Dyspepsia the "Health Token" you Book 2 on the Heart must address Dr. Shoop. Book 3 on the Kidneys Box 1531, Racine, Wis. Book 4 for Women State which book you Book 5 for Men Book 6 on Rheumatism

tended passport to good health.

Dr. Shoop's Lightning killed one man and injured two others in a mine 1,008 feet in the ground in Michigan recently. The bolt Restorative

rails. When the roads were built of iron rails the whole system had to be renewed every 18 months. GOOD BOYS COST \$160 PER YEAR. Estimate Given by an Ohio Institution for the Prevention of Crime. "It costs the State of Ohio about \$160 year for each boy. A useful, capable man is worth to society, on the average, \$10,000. These 11,000 boys cost the State of Ohio then, say, \$2,000,000. Say 7,000 of them were rescued. That is \$70,000,000 recovered to society on the investment of \$2,000,000. It has been figured that every criminal does about \$2,000 damage a year, leaving entirely out of the estimate what it costs to maintain our plant for the detection, prevention, and punishment of crime Each man will be a criminal not less than 20 years. That's \$40,000 damages multiplied by 7,000 boys, or \$280,000,-000 damages saved, not counting the

down.

Thousands of Readers of This Paper

CUT THIS OUT-

CONTINENTAL COMMERCIAL COMPANY, 680 Fullerton Building, ST. LOUIS, MO.

ing on the same soil and equally mothers think that salting insures their

pears.

steel ingots.

or more, and then the child is washed

with warm water. In Asia Minor there

is a tribe of people living in the moun-

tains who do even worse than this. They salt their new born babies and

leave the salt on them for 24 hours.

The modern Greeks sprinkle salt on

their babies. This practice of salting

bables is an ancient custom. It has its

rise in superstition, of course. The

children's health and strength, and

that it will keep evil spirits away from

them. Even in some parts of Germany

To copper the surface of brass arti-

cles, all that is required is to wind a

piece of wire round them, and dip them

in dilute sulphuric acid. The zinc is

but the copper remains undissolved, and

the article will appear as if coated on

the surface with a layer of pure copper.

by dipping a strip of calico in a solu-

tion of one part of cobalt chloride, 75

of nickel oxide and 20 of gelatine in

200 of water. The strip is green in

fine weather, fading as moisture ap-

The Carnegie Steel Works, consisting

of three plants, the Duquesne, the Edgar Thompson and the Homestead Steel

Works, are all located in Alleghany

County, Pa., and are the largest in the

700,000,000 tons of steel rails in a year, the Duquesne produces the same quan-

tity of ingots, and the Homestead works

500,000 tons of Bessemer steel ingots,

besides 1,500,000 tons of open-hearth

Professional men in the Argentine

Republic must hold diplomas from the

national schools and universities. By

law enacted in June all civic and me-

As the result of experiments extend-

ng over several months, it has been

decided to abandon hard wood for street

paving purposes in London. Hard wood

not only severely damages the concrete

foundation, but wears unevenly. The edges of each block wear away before

the center, and the result is a corduroylike ridge, which makes a very rough

surface for driving over. Soft wood, on

the other hand, wears evenly; the ex-

ternal pressure tends to spread the wood at the edges, thereby filling up

the interstices between the blocks, and

giving a perfectly even, homogeneous

ment is about 10 years, and it has the additional advantage of wearing right

The commercial power of the world is largely due to the invention of steel

(Everybody's.)

The life of a soft-wood pave-

The "Thompson"

An interesting hygrometer is made

salt is still used on the child at birth.

BEAUTIFUL ALBUM FREE! An e'egant Souvenir Photograph Album containing a nur

cost of the anti-criminal plant. Has it paid to run this Boys' Industrial School at Lancaster? "And even if it hadn't paid financially, isn't it worth while?"

The Yiddish Dialect.

Yiddish is an archaic and corrupt form of German extensively spoken by Jews in many countries besides Gerwhile the other had allowed 7½ liters many itself. An instance of its popularto pass. It is therefore desirable to ity is given by a writer. In Jerusalem fell wood in December, and to select he met "a worthy man who denounced for purchase Winter wood in preference me for being unable to converse with borax and tartrate of potash, two parts to Spring wood. Winter wood is read- him in Yiddish. 'You are no Jew,' he ily recognized from its containing par- protested, for you do not know the Jewish language.' I answered that He-brew was the Jewish language, and that erty of becoming blue on contact with tincture of iodine, A little of the tinc- I was quite willing to try to speak to ture is spread on a sample, and if the him in it. His rejoinder was: 'I have George V. McConnell, Reed City, wood retains its color, or if it merely belich.. has patented a folding stool of come darker with the application of the

An Englishman's Puzzle.

Congressman A. P. Gardner, of Mas-Anti-Slipping Device.

William J. Smith, Canastota, N. Y., has patented an anti-slipping device

Indigestion

New Uses for Aspestos.

New Uses for Aspestos.

The finest asbestos known comes from the Grand Canyon of the Colorado. It has long fibers that can be spun and woven into various fireproof ing happened, however, until Mr. Gardner of the latest adaptation of asbestos is to the making of shingles for ribs. He turned and found the novice the purpose of making fireproof roofs prodding him with the muzzle and fumfor buildings. It is stated that these bling with the hammers of his gun. walk and talk and act-but the AUTOMATIC STOMACH are not only fireproof, but are far "Before we get on the birds," said the lighter than slate, and by their non- Englishman, "you might show me how

We are the only exclusive manufacturers of harness in America that sell their entire output direct to the user at prices that will save you from 25 to 40 per cent. Everything is sent to your home subject to your in-spection and approval. Illustrated Catalogue O and price list free upon request.
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